

GILA RIVER BASIN

09447800 BONITA CREEK NEAR MORENCI, AZ

LOCATION--Lat 32°57'20", long 109°31'50", in SE1/4NW1/4 sec. 36, T.5 S., R.27 E., Graham County, Hydrologic Unit 15040005, on left bank 2 mi upstream from intake of city of Safford water supply, 6.3 mi upstream from mouth, and 12.8 mi southwest of Morenci.

DRAINAGE AREA--302 mi².

PERIOD OF RECORD--Aug. 1981 to current year.

GAGE--Water-stage recorder. Elevation of gage is 3,500 ft above sea level, from topographic map. Two crest-stage gages 440 ft upstream on right and left banks.

REMARKS--No estimated daily discharges. Records fair.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 19,500 ft³/s Jan. 18, 1993, gage height, 16.5 ft, from slope-area measurement of peak flow; minimum daily, 0.66 ft³/s Aug. 31, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD--Flood of Dec. 20, 1972, 10,000 ft³/s, from slope-area measurement made by city of Safford at site about 2 mi downstream. Flood of June 27, 1981, 1,340 ft³/s, from slope-area measurement at present site, gage height, 5.6 ft, from floodmark.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug. 18.....	1545	*16	*5.25

Minimum daily discharge, 1.3 ft³/s, Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	2.0	2.1	2.4	2.5	3.0	3.6	3.4	2.5	2.3	1.5	2.0
2	1.3	2.0	2.1	2.4	2.5	3.0	3.9	3.3	2.5	2.2	1.6	2.0
3	1.4	2.0	2.1	2.4	2.5	3.0	3.9	3.3	2.5	2.1	1.5	2.0
4	1.4	2.0	2.1	2.4	2.6	3.3	4.0	3.3	2.4	2.0	1.5	2.0
5	1.4	2.0	2.2	2.4	2.6	3.4	3.9	3.3	2.4	2.0	1.6	2.0
6	1.4	2.0	2.2	2.4	2.6	3.5	3.9	3.2	2.4	1.9	1.6	2.1
7	1.4	2.0	2.2	2.4	2.6	3.5	3.9	3.2	2.4	2.6	1.4	2.0
8	1.5	1.9	2.2	2.4	2.6	3.6	3.8	3.2	2.4	2.7	1.9	2.0
9	1.5	1.9	2.2	2.4	2.6	4.3	3.8	3.1	2.4	1.6	1.9	2.1
10	1.5	1.9	2.2	2.4	2.6	4.6	3.8	3.1	2.4	1.5	2.0	2.1
11	1.5	1.9	2.2	2.4	2.6	4.7	4.0	3.1	2.4	2.5	2.0	2.1
12	1.5	2.0	2.2	2.4	2.7	4.6	4.0	3.1	2.4	2.6	2.0	2.1
13	1.6	2.0	2.3	2.4	2.7	4.8	3.9	3.0	2.4	2.5	2.0	2.1
14	1.6	1.8	2.3	2.4	2.7	4.6	3.9	3.0	2.4	2.4	2.0	2.1
15	1.6	1.8	2.3	2.5	2.7	4.4	3.9	3.0	2.4	2.4	1.9	2.0
16	1.6	1.8	2.3	2.4	2.7	4.3	3.9	3.0	2.4	2.3	1.9	2.0
17	1.7	1.8	2.3	2.4	2.7	4.3	3.9	3.0	2.4	2.2	1.9	2.0
18	1.7	1.8	2.3	2.4	2.7	4.2	3.8	2.9	2.4	2.4	7.0	2.0
19	1.7	1.8	2.3	2.4	2.7	4.1	3.8	2.9	2.3	2.3	4.9	2.1
20	1.8	1.8	2.3	2.4	2.8	4.0	3.7	2.9	2.4	2.2	2.8	2.1
21	1.7	1.8	2.3	2.4	2.8	3.9	3.7	2.9	2.4	2.2	2.5	2.1
22	1.8	1.9	2.4	2.5	2.8	3.9	3.7	2.9	2.4	2.1	2.3	2.1
23	1.8	2.0	2.4	2.5	2.9	3.9	3.6	2.9	2.4	2.1	2.2	2.1
24	1.8	2.0	2.4	2.5	2.9	3.9	3.6	2.8	2.4	2.1	2.2	2.1
25	1.9	2.0	2.3	2.5	2.9	3.9	3.7	2.8	2.4	2.0	2.1	2.2
26	1.9	2.0	2.3	2.5	2.9	3.9	3.6	2.9	2.4	2.0	2.1	2.3
27	1.9	2.0	2.3	2.5	2.9	3.8	3.6	2.8	2.4	1.9	2.1	2.3
28	1.9	2.0	2.3	2.5	2.9	3.8	3.6	2.8	2.4	1.8	2.1	2.3
29	2.0	2.0	2.3	2.4	3.0	3.7	3.5	2.8	2.4	1.8	2.0	2.3
30	2.0	2.0	2.3	2.5	---	3.7	3.4	2.7	2.4	1.7	2.0	2.4
31	2.0	---	2.3	2.5	---	3.7	---	2.6	---	1.6	2.0	---
TOTAL	51.1	57.9	70.0	75.4	78.7	121.3	113.3	93.2	72.2	66.0	68.5	63.1
MEAN	1.65	1.93	2.26	2.43	2.71	3.91	3.78	3.01	2.41	2.13	2.21	2.10
MAX	2.0	2.0	2.4	2.5	3.0	4.8	4.0	3.4	2.5	2.7	7.0	2.4
MIN	1.3	1.8	2.1	2.4	2.5	3.0	3.4	2.6	2.3	1.5	1.4	2.0
AC-FT	101	115	139	154	156	241	225	185	143	131	136	125
CFSM	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
IN.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	13.4	6.38	9.16	48.0	24.9	13.1	4.93	3.87	3.13	6.65	7.39	7.27												
MAX	176	21.7	29.6	769	165	53.6	10.7	6.33	5.86	44.5	14.6	28.6												
(WY)	1984	1995	1983	1993	1993	1995	1998	1993	1995	1999	2000	1996												
MIN	1.52	1.86	2.26	2.43	2.71	2.74	2.00	2.10	1.32	1.93	1.73	1.20												
(WY)	1992	1992	2004	2004	2004	2001	1991	1991	1982	2002	2003	2003												

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1982 - 2004
ANNUAL TOTAL	1051.7	930.7	
ANNUAL MEAN	2.88	2.54	12.3
HIGHEST ANNUAL MEAN			83.7
LOWEST ANNUAL MEAN			2.54
HIGHEST DAILY MEAN	29	Mar 22	7.0
LOWEST DAILY MEAN	0.8	Sep 24	1.3
ANNUAL SEVEN-DAY MINIMUM	0.94	Sep 19	1.4
ANNUAL RUNOFF (AC-FT)	2090	1850	8930
ANNUAL RUNOFF (CFSM)	0.010	0.008	0.041
ANNUAL RUNOFF (INCHES)	0.13	0.11	0.55
10 PERCENT EXCEEDS	3.9	3.8	8.5
50 PERCENT EXCEEDS	2.3	2.4	4.4
90 PERCENT EXCEEDS	1.5	1.8	2.3